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L4 and controller	33

US Patents Full-Text Database  
US Pre-Grant Publication Full-Text Database  
JPO Abstracts Database  
EPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

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side by side

**Hit Count Set Name**  
result set*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=NO; OP=OR*

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<u>L2</u>	L1 and vehicle	115	<u>L2</u>
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**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 33 of 33 returned.** 1. Document ID: US 20030149676 A1

L5: Entry 1 of 33

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030149676

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030149676 A1

TITLE: Adaptive learning system and method

PUBLICATION-DATE: August 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kasabov, Nikola Kirilov	Auckland		NZ	

US-CL-CURRENT: 706/2; 706/14, 706/26[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#) 2. Document ID: US 20030110148 A1

L5: Entry 2 of 33

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030110148

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030110148 A1

TITLE: Intelligent mechatronic control suspension system based on soft computing

PUBLICATION-DATE: June 12, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ulyanov, Sergei V.	Crema		IT	
Panfilov, Sergei	Crema		IT	
Kurawaki, Ichiro	Iwata		JP	
Hagiwira, Takahide	Iwata		JP	

US-CL-CURRENT: 706/2; 706/15[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#) 3. Document ID: US 20030018600 A1

L5: Entry 3 of 33

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018600  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030018600 A1

TITLE: Learning method and apparatus for causal network

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jammu, Vinay Bhaskar	Niskayuna	NY	US	

US-CL-CURRENT: 706/16

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RIMC](#) | [Draw Desc](#) | [Image](#)

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4. Document ID: US 20020099677 A1

L5: Entry 4 of 33

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020099677  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020099677 A1

TITLE: Adaptive control system having direct output feedback and related apparatuses and methods

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Calise, Anthony J.	Atlanta	GA	US	
Hovakimyan, Naira	Smyrna	GA	US	
Idan, Moshe	Haifa		IL	

US-CL-CURRENT: 706/23; 706/15

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RIMC](#) | [Draw Desc](#) | [Image](#)

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5. Document ID: US 6581048 B1

L5: Entry 5 of 33

File: USPT

Jun 17, 2003

US-PAT-NO: 6581048  
DOCUMENT-IDENTIFIER: US 6581048 B1

TITLE: 3-brain architecture for an intelligent decision and control system

DATE-ISSUED: June 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Werbos; Paul J.	Arlington	VA	22202	

US-CL-CURRENT: 706/23; 250/369, 706/16

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Drawn Desc](#) [Image](#) 6. Document ID: US 6553300 B2

L5: Entry 6 of 33

File: USPT

Apr 22, 2003

US-PAT-NO: 6553300

DOCUMENT-IDENTIFIER: US 6553300 B2

TITLE: Harvester with intelligent hybrid control system

DATE-ISSUED: April 22, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ma; Xinghan	Erie	IL		
Mertins; Karl-Heinz Otto	Davenport	IA		
Beck; Folker	Bettendorf	IA		

US-CL-CURRENT: 701/50; 382/156, 56/10.2F, 56/10.2H, 56/14.8, 56/16.5, 700/10,  
700/34, 700/47, 700/48, 700/49, 706/15, 706/2, 706/8, 706/904[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Drawn Desc](#) [Image](#) 7. Document ID: US 6532454 B1

L5: Entry 7 of 33

File: USPT

Mar 11, 2003

US-PAT-NO: 6532454

DOCUMENT-IDENTIFIER: US 6532454 B1

TITLE: Stable adaptive control using critic designs

DATE-ISSUED: March 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Werbos; Paul J.	Arlington	VA	22203	

US-CL-CURRENT: 706/14; 706/21, 706/23[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Drawn Desc](#) [Image](#) 8. Document ID: US 6493689 B2

L5: Entry 8 of 33

File: USPT

Dec 10, 2002

US-PAT-NO: 6493689

DOCUMENT-IDENTIFIER: US 6493689 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Neural net controller for noise and vibration reduction

DATE-ISSUED: December 10, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kotoulas; Antonios N.	Denville	NJ		
Berezin; Charles	Trumbull	CT		
Torok; Michael S.	Hamden	CT		
Lorber; Peter F.	Coventry	CT		

US-CL-CURRENT: 706/23

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

 9. Document ID: US 6466924 B1

L5: Entry 9 of 33

File: USPT

Oct 15, 2002

US-PAT-NO: 6466924

DOCUMENT-IDENTIFIER: US 6466924 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Verification method of neural network and verification apparatus thereof

DATE-ISSUED: October 15, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tateishi; Masahiko	Nagoya			JP
Tamura; Shinichi	Tajimi			JP

US-CL-CURRENT: 706/15; 700/28, 700/48

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

 10. Document ID: US 6446055 B1

L5: Entry 10 of 33

File: USPT

Sep 3, 2002

US-PAT-NO: 6446055

DOCUMENT-IDENTIFIER: US 6446055 B1

TITLE: Process control

DATE-ISSUED: September 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grand; Stephen L.	Wells, Somerset BA5 1AQ			GB

US-CL-CURRENT: 706/10; 706/21, 706/47

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

11. Document ID: US 6434541 B1

L5: Entry 11 of 33

File: USPT

Aug 13, 2002

US-PAT-NO: 6434541

DOCUMENT-IDENTIFIER: US 6434541 B1

TITLE: Automotive engine misfire detection system including a bit-serial based recurrent neuroprocessor

DATE-ISSUED: August 13, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tawel; Raoul	Glendale	CA		
Aranki; Nazeh	Anaheim	CA		
Feldkamp; Lee A.	Plymouth	MI		
Puskorius; Gintaras V.	Novi	MI		
Marko; Kenneth A.	Ann Arbor	MI		
James; John V.	Walled Lake	MI		

US-CL-CURRENT: 706/30; 706/43[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KINIC](#) | [Drawn Desc](#) | [Image](#) 12. Document ID: US 6424956 B1

L5: Entry 12 of 33

File: USPT

Jul 23, 2002

US-PAT-NO: 6424956

DOCUMENT-IDENTIFIER: US 6424956 B1

TITLE: Stochastic encoder/decoder/predictor

DATE-ISSUED: July 23, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Werbos; Paul J.	College Park	MD	20740	

US-CL-CURRENT: 706/2; 706/21, 706/37, 706/41[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KINIC](#) | [Drawn Desc](#) | [Image](#) 13. Document ID: US 6418424 B1

L5: Entry 13 of 33

File: USPT

Jul 9, 2002

US-PAT-NO: 6418424

DOCUMENT-IDENTIFIER: US 6418424 B1

TITLE: Ergonomic man-machine interface incorporating adaptive pattern recognition based control system

DATE-ISSUED: July 9, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoffberg; Steven M.	West Harrison	NY	10604	
Hoffberg-Borghesani; Linda I.	Acton	MA	01720	

US-CL-CURRENT: 706/21; 434/178, 706/52[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#) 14. Document ID: US 6415273 B1

L5: Entry 14 of 33

File: USPT

Jul 2, 2002

US-PAT-NO: 6415273

DOCUMENT-IDENTIFIER: US 6415273 B1

TITLE: Method of feed-forward control using control logic with anticipatory learning control

DATE-ISSUED: July 2, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujime; Yoko	Iwata			JP

US-CL-CURRENT: 706/16; 706/23, 706/46, 706/903[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#) 15. Document ID: US 6405122 B1

L5: Entry 15 of 33

File: USPT

Jun 11, 2002

US-PAT-NO: 6405122

DOCUMENT-IDENTIFIER: US 6405122 B1

TITLE: Method and apparatus for estimating data for engine control

DATE-ISSUED: June 11, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamaguchi; Masashi	Shizuoka			JP

US-CL-CURRENT: 701/106; 701/102, 701/104, 701/109, 706/27, 706/31[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#) 16. Document ID: US 6317658 B1

L5: Entry 16 of 33

File: USPT

Nov 13, 2001

US-PAT-NO: 6317658

DOCUMENT-IDENTIFIER: US 6317658 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Neurocomputing control distribution system

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vian; John L.	Renton	WA		

US-CL-CURRENT: 701/1; 701/59, 706/15, 706/41

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KINIC](#) | [Drawn Desc](#) | [Image](#)

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17. Document ID: US 6236908 B1

L5: Entry 17 of 33

File: USPT

May 22, 2001

US-PAT-NO: 6236908

DOCUMENT-IDENTIFIER: US 6236908 B1

TITLE: Virtual vehicle sensors based on neural networks trained using data generated by simulation models

DATE-ISSUED: May 22, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cheng; Jie	Ann Arbor	MI		
LaCrosse; Stephanie Mary	Allen Park	MI		
Tascillo; Anya Lynn	Canton	MI		
Newman, Jr.; Charles Edward	Flat Rock	MI		
Davis; George Carver	Ypsilanti	MI		

US-CL-CURRENT: 701/1; 701/102, 701/106, 701/29, 706/23, 706/25

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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18. Document ID: US 6173218 B1

L5: Entry 18 of 33

File: USPT

Jan 9, 2001

US-PAT-NO: 6173218

DOCUMENT-IDENTIFIER: US 6173218 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Neurocomputing control distribution system

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vian; John L.	Renton	WA		

US-CL-CURRENT: 701/1; 701/59, 706/15, 706/20, 706/44

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KINIC](#) | [Drawn Desc](#) | [Image](#)

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19. Document ID: US 6169981 B1

L5: Entry 19 of 33

File: USPT

Jan 2, 2001

US-PAT-NO: 6169981

DOCUMENT-IDENTIFIER: US 6169981 B1

TITLE: 3-brain architecture for an intelligent decision and control system

DATE-ISSUED: January 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Werbos; Paul J.	College Park	MD	20740-2403	

US-CL-CURRENT: 706/23; 706/15, 706/16, 706/26, 706/27

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KINIC](#) | [Drawn Desc](#) | [Image](#)

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20. Document ID: US 6092018 A

L5: Entry 20 of 33

File: USPT

Jul 18, 2000

US-PAT-NO: 6092018

DOCUMENT-IDENTIFIER: US 6092018 A

TITLE: Trained neural network engine idle speed control system

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Puskorius; Gintaras Vincent	Redford	MI		
Feldkamp; Lee Albert	Plymouth	MI		
Davis; Leighton Ira	Ann Arbor	MI		

US-CL-CURRENT: 701/110; 123/339.11, 123/339.23, 701/102, 706/20, 706/21

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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21. Document ID: US 5854993 A

L5: Entry 21 of 33

File: USPT

Dec 29, 1998

US-PAT-NO: 5854993

DOCUMENT-IDENTIFIER: US 5854993 A

TITLE: Component machine testing using neural network processed vibration data analysis

DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grichnik; Anthony J.	Peoria	IL		

US-CL-CURRENT: 702/54; 706/15, 706/20, 706/912, 73/581

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KIMC](#) | [Drawn Desc](#) | [Image](#)

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22. Document ID: US 5796922 A

L5: Entry 22 of 33

File: USPT

Aug 18, 1998

US-PAT-NO: 5796922

DOCUMENT-IDENTIFIER: US 5796922 A

TITLE: Trainable, state-sampled, network controller

DATE-ISSUED: August 18, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Jay L.	Ogden	UT		

US-CL-CURRENT: 706/23; 700/252, 706/25, 706/903, 706/906, 706/907

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KIMC](#) | [Drawn Desc](#) | [Image](#)

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23. Document ID: US 5781700 A

L5: Entry 23 of 33

File: USPT

Jul 14, 1998

US-PAT-NO: 5781700

DOCUMENT-IDENTIFIER: US 5781700 A

TITLE: Trained Neural network air/fuel control system

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Puskorius; Gintaras Vincent	Redford	MI		
Feldkamp; Lee Albert	Plymouth	MI		
Davis; Leighton Ira	Ann Arbor	MI		

US-CL-CURRENT: 706/14; 706/23, 706/905

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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24. Document ID: US 5751910 A

L5: Entry 24 of 33

File: USPT

May 12, 1998

US-PAT-NO: 5751910

DOCUMENT-IDENTIFIER: US 5751910 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Neural network solder paste inspection system

DATE-ISSUED: May 12, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryant; Steven M.	Holley	NY		
Loewenthal; Kenneth H.	Reston	VA		

US-CL-CURRENT: 706/2; 382/145, 382/147, 382/157, 382/159, 706/16, 706/23, 706/912[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#) 25. Document ID: US 5745653 A

L5: Entry 25 of 33

File: USPT

Apr 28, 1998

US-PAT-NO: 5745653

DOCUMENT-IDENTIFIER: US 5745653 A

TITLE: Generic neural network training and processing system

DATE-ISSUED: April 28, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jesion; Gerald	Woodhaven	MI		
Carnes; James Calvey	Willis	MI		
Puskorius; Gintaras Vincent	Redford	MI		
Feldkamp; Lee Albert	Plymouth	MI		

US-CL-CURRENT: 706/23[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#) 26. Document ID: US 5668717 A

L5: Entry 26 of 33

File: USPT

Sep 16, 1997

US-PAT-NO: 5668717

DOCUMENT-IDENTIFIER: US 5668717 A

TITLE: Method and apparatus for model-free optimal signal timing for system-wide traffic control

DATE-ISSUED: September 16, 1997

## INVENTOR-INFORMATION:

NAME Spall; James C.	CITY Ellicott City	STATE MD	ZIP CODE	COUNTRY
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US-CL-CURRENT: 700/51; 701/117, 706/23, 706/903[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[RDMC](#) [Drawn Desc](#) [Image](#) 27. Document ID: US 5649061 A

L5: Entry 27 of 33

File: USPT

Jul 15, 1997

US-PAT-NO: 5649061

DOCUMENT-IDENTIFIER: US 5649061 A

TITLE: Device and method for estimating a mental decision

DATE-ISSUED: July 15, 1997

## INVENTOR-INFORMATION:

NAME Smyth; Christopher C.	CITY Fallston	STATE MD	ZIP CODE	COUNTRY
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US-CL-CURRENT: 706/16; 250/221, 351/210, 706/23[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[RDMC](#) [Drawn Desc](#) [Image](#) 28. Document ID: US 5642467 A

L5: Entry 28 of 33

File: USPT

Jun 24, 1997

US-PAT-NO: 5642467

DOCUMENT-IDENTIFIER: US 5642467 A

TITLE: Controller for autonomous device

DATE-ISSUED: June 24, 1997

## INVENTOR-INFORMATION:

NAME Stover; James A. Gibson; Ronald E.	CITY Spring Mills State College	STATE PA PA	ZIP CODE	COUNTRY
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US-CL-CURRENT: 700/250; 706/23, 706/25, 706/53[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[RDMC](#) [Drawn Desc](#) [Image](#) 29. Document ID: US 5583771 A

L5: Entry 29 of 33

File: USPT

Dec 10, 1996

US-PAT-NO: 5583771

DOCUMENT-IDENTIFIER: US 5583771 A

TITLE: Method and apparatus for distinguishing between deployment events and non-deployment events in an SIR system

DATE-ISSUED: December 10, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lynch; David D.	Santa Barbara	CA		
Long; James F.	Goleta	CA		
Brumbach, Jr.; Rex P.	Goleta	CA		
Garcia, Jr.; Porfirio	Santa Ynez	CA		
Kiselewicz; Stephen J.	Carmel	IN		
Turner; Douglas D.	Kokomo	IN		

US-CL-CURRENT: 701/36; 180/282, 280/734, 307/10.1, 701/45, 706/20, 706/905

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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30. Document ID: US 5486998 A

L5: Entry 30 of 33

File: USPT

Jan 23, 1996

US-PAT-NO: 5486998

DOCUMENT-IDENTIFIER: US 5486998 A

TITLE: Process stabilizing process controller

DATE-ISSUED: January 23, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Corso; Ronald	Indianapolis	IN		

US-CL-CURRENT: 700/32; 706/23

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KIND](#) | [Draw Desc](#) | [Image](#)

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31. Document ID: US 5375250 A

L5: Entry 31 of 33

File: USPT

Dec 20, 1994

US-PAT-NO: 5375250

DOCUMENT-IDENTIFIER: US 5375250 A

TITLE: Method of intelligent computing and neural-like processing of time and space functions

DATE-ISSUED: December 20, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van den Heuvel; Raymond C.	Northridge	CA	91326	

US-CL-CURRENT: 706/41

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)
[KIMC](#) | [Drawn Desc](#) | [Image](#)
 32. Document ID: US 5214744 A

L5: Entry 32 of 33

File: USPT

May 25, 1993

US-PAT-NO: 5214744

DOCUMENT-IDENTIFIER: US 5214744 A

TITLE: Method and apparatus for automatically identifying targets in sonar images

DATE-ISSUED: May 25, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schweizer; Philipp F.	Monroeville	PA		
Petlevich, Jr.; Walter J.	Uniontown	PA		

US-CL-CURRENT: 382/103; 382/156, 382/228, 706/10, 706/20, 708/801
[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)
[KIMC](#) | [Drawn Desc](#) | [Image](#)
 33. Document ID: US 4809347 A

L5: Entry 33 of 33

File: USPT

Feb 28, 1989

US-PAT-NO: 4809347

DOCUMENT-IDENTIFIER: US 4809347 A

TITLE: Computer vision architecture

DATE-ISSUED: February 28, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nash; James G.	Los Angeles	CA		
Shu; David B.	Canoga Park	CA		

US-CL-CURRENT: 382/240; 382/302, 700/259, 700/4, 706/20
[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)
[KIMC](#) | [Drawn Desc](#) | [Image](#)
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Terms	Documents
L4 and controller	33

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<b>Terms</b>	<b>Documents</b>
L5 and driver	8

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 JPO Abstracts Database  
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 IBM Technical Disclosure Bulletins

**Database:****Search:**

L6

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 result set

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=NO; OP=OR

<u>L6</u>	L5 and driver	8	<u>L6</u>
<u>L5</u>	L4 and controller	33	<u>L5</u>
<u>L4</u>	L3 and sens\$4	57	<u>L4</u>
<u>L3</u>	L2 and performance	78	<u>L3</u>
<u>L2</u>	L1 and vehicle	115	<u>L2</u>
<u>L1</u>	((706/15  706/16  706/17  706/18  706/19  706/20  706/21  706/22  706/23  706/24  706/25  706/26  706/27  706/28  706/29  706/30  706/31  706/32  706/33  706/34  706/35  706/36  706/37  706/38  706/39  706/40  706/41  706/42  706/43  706/44 )!.CCLS.)	2238	<u>L1</u>

END OF SEARCH HISTORY

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1. Document ID: US 20030018600 A1

L6: Entry 1 of 8

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018600  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030018600 A1

TITLE: Learning method and apparatus for causal network

PUBLICATION-DATE: January 23, 2003

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY	RULE-47
Jammu, Vinay Bhaskar	Niskayuna	NY	US	

US-CL-CURRENT: 706/16

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

2. Document ID: US 6446055 B1

L6: Entry 2 of 8

File: USPT

Sep 3, 2002

US-PAT-NO: 6446055  
DOCUMENT-IDENTIFIER: US 6446055 B1

TITLE: Process control

DATE-ISSUED: September 3, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grand; Stephen L.	Wells, Somerset BA5 1AQ			GB

US-CL-CURRENT: 706/10; 706/21, 706/47

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

3. Document ID: US 6418424 B1

L6: Entry 3 of 8

File: USPT

Jul 9, 2002

US-PAT-NO: 6418424  
DOCUMENT-IDENTIFIER: US 6418424 B1

TITLE: Ergonomic man-machine interface incorporating adaptive pattern recognition

based control system

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoffberg; Steven M.	West Harrison	NY	10604	
Hoffberg-Borghesani; Linda I.	Acton	MA	01720	

US-CL-CURRENT: 706/21; 434/178, 706/52

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIND](#) | [Drawn Desc](#) | [Image](#)

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4. Document ID: US 6415273 B1

L6: Entry 4 of 8

File: USPT

Jul 2, 2002

US-PAT-NO: 6415273

DOCUMENT-IDENTIFIER: US 6415273 B1

TITLE: Method of feed-forward control using control logic with anticipatory learning control

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujime; Yoko	Iwata			JP

US-CL-CURRENT: 706/16; 706/23, 706/46, 706/903

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIND](#) | [Drawn Desc](#) | [Image](#)

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5. Document ID: US 6405122 B1

L6: Entry 5 of 8

File: USPT

Jun 11, 2002

US-PAT-NO: 6405122

DOCUMENT-IDENTIFIER: US 6405122 B1

TITLE: Method and apparatus for estimating data for engine control

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamaguchi; Masashi	Shizuoka			JP

US-CL-CURRENT: 701/106; 701/102, 701/104, 701/109, 706/27, 706/31

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KIND](#) | [Drawn Desc](#) | [Image](#)

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6. Document ID: US 5796922 A

L6: Entry 6 of 8

File: USPT

Aug 18, 1998

US-PAT-NO: 5796922

DOCUMENT-IDENTIFIER: US 5796922 A

TITLE: Trainable, state-sampled, network controller

DATE-ISSUED: August 18, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Jay L.	Ogden	UT		

US-CL-CURRENT: 706/23; 700/252, 706/25, 706/903, 706/906, 706/907[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KINIC](#) | [Draw Desc](#) | [Image](#)

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 7. Document ID: US 5668717 A

L6: Entry 7 of 8

File: USPT

Sep 16, 1997

US-PAT-NO: 5668717

DOCUMENT-IDENTIFIER: US 5668717 A

TITLE: Method and apparatus for model-free optimal signal timing for system-wide traffic control

DATE-ISSUED: September 16, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Spall; James C.	Ellicott City	MD		

US-CL-CURRENT: 700/51; 701/117, 706/23, 706/903[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KINIC](#) | [Draw Desc](#) | [Image](#)

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 8. Document ID: US 5486998 A

L6: Entry 8 of 8

File: USPT

Jan 23, 1996

US-PAT-NO: 5486998

DOCUMENT-IDENTIFIER: US 5486998 A

TITLE: Process stabilizing process controller

DATE-ISSUED: January 23, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Corso; Ronald	Indianapolis	IN		

US-CL-CURRENT: 700/32; 706/23

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KINIC](#) [Drawn Desc](#) [Image](#)[Generate Collection](#)[Print](#)

Terms	Documents
L5 and driver	8

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**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 8 of 8 returned.** 1. Document ID: US 20030018600 A1

L6: Entry 1 of 8

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018600  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030018600 A1

TITLE: Learning method and apparatus for causal network

PUBLICATION-DATE: January 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jammu, Vinay Bhaskar	Niskayuna	NY	US	

US-CL-CURRENT: 706/16[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RMD](#) | [Draw Desc](#) | [Image](#) 2. Document ID: US 6446055 B1

L6: Entry 2 of 8

File: USPT

Sep 3, 2002

US-PAT-NO: 6446055  
DOCUMENT-IDENTIFIER: US 6446055 B1

TITLE: Process control

DATE-ISSUED: September 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grand; Stephen L.	Wells, Somerset BA5 1AQ			GB

US-CL-CURRENT: 706/10; 706/21, 706/47[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RMD](#) | [Draw Desc](#) | [Image](#) 3. Document ID: US 6418424 B1

L6: Entry 3 of 8

File: USPT

Jul 9, 2002

US-PAT-NO: 6418424  
DOCUMENT-IDENTIFIER: US 6418424 B1

TITLE: Ergonomic man-machine interface incorporating adaptive pattern recognition

based control system

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoffberg; Steven M.	West Harrison	NY	10604	
Hoffberg-Borghesani; Linda I.	Acton	MA	01720	

US-CL-CURRENT: 706/21, 434/178, 706/52

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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4. Document ID: US 6415273 B1

L6: Entry 4 of 8

File: USPT

Jul 2, 2002

US-PAT-NO: 6415273

DOCUMENT-IDENTIFIER: US 6415273 B1

TITLE: Method of feed-forward control using control logic with anticipatory learning control

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujime; Yoko	Iwata			JP

US-CL-CURRENT: 706/16, 706/23, 706/46, 706/903

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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5. Document ID: US 6405122 B1

L6: Entry 5 of 8

File: USPT

Jun 11, 2002

US-PAT-NO: 6405122

DOCUMENT-IDENTIFIER: US 6405122 B1

TITLE: Method and apparatus for estimating data for engine control

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamaguchi; Masashi	Shizuoka			JP

US-CL-CURRENT: 701/106, 701/102, 701/104, 701/109, 706/27, 706/31

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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6. Document ID: US 5796922 A

L6: Entry 6 of 8

File: USPT

Aug 18, 1998

US-PAT-NO: 5796922

DOCUMENT-IDENTIFIER: US 5796922 A

TITLE: Trainable, state-sampled, network controller

DATE-ISSUED: August 18, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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US-CL-CURRENT: 706/23; 700/252, 706/25, 706/903, 706/906, 706/907[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KDDC](#) | [Draw Desc](#) | [Image](#)

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 7. Document ID: US 5668717 A

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File: USPT

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US-PAT-NO: 5668717

DOCUMENT-IDENTIFIER: US 5668717 A

TITLE: Method and apparatus for model-free optimal signal timing for system-wide traffic control

DATE-ISSUED: September 16, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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US-CL-CURRENT: 700/51; 701/117, 706/23, 706/903[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KDDC](#) | [Draw Desc](#) | [Image](#)

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 8. Document ID: US 5486998 A

L6: Entry 8 of 8

File: USPT

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US-PAT-NO: 5486998

DOCUMENT-IDENTIFIER: US 5486998 A

TITLE: Process stabilizing process controller

DATE-ISSUED: January 23, 1996

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NAME	CITY	STATE	ZIP CODE	COUNTRY
Corso; Ronald	Indianapolis	IN		

US-CL-CURRENT: 700/32; 706/23

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[IOMC](#) [Drawn Desc](#) [Image](#)[Generate Collection](#)[Print](#)

Terms	Documents
L5 and driver	8

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<b>Terms</b>	<b>Documents</b>
L5 and driver	8

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<u>L6</u>	L5 and driver	8	<u>L6</u>
<u>L5</u>	L4 and controller	33	<u>L5</u>
<u>L4</u>	L3 and sens\$4	57	<u>L4</u>
<u>L3</u>	L2 and performance	78	<u>L3</u>
<u>L2</u>	L1 and vehicle	115	<u>L2</u>
<u>L1</u>	((706/15  706/16  706/17  706/18  706/19  706/20  706/21  706/22  706/23  706/24  706/25  706/26  706/27  706/28  706/29  706/30  706/31  706/32  706/33  706/34  706/35  706/36  706/37  706/38  706/39  706/40  706/41  706/42  706/43  706/44 )!.CCLS.)	2238	<u>L1</u>

END OF SEARCH HISTORY

# Patent Assignment Abstract of Title

**Total Assignments: 1**

**Application #:** 09683571 **Filing Dt:** 01/19/2002

**Patent #:** NONE

**Issue Dt:**

**PCT #:** NONE

**Publication #:** 20020128751

**Pub Dt:** 09/12/20

**Inventors:** Johan Engstrom, Trent Victor

**Title:** System and method for real-time recognition of driving patters

**Assignment: 1**

<b>Reel/Frame:</b> <u>012674/0981</u>	<b>Received:</b> 03/19/2002	<b>Recorded:</b> 03/09/2002	<b>Mailed:</b> 05/10/2002	<b>Pages</b>
---------------------------------------	-----------------------------	-----------------------------	---------------------------	--------------

**Conveyance:** ASSIGNMENT OF ASSIGNEES INTEREST (SEE DOCUMENT FOR DETAILS).

<b>Assignors:</b> <u>ENGSTROM, JOHAN</u>	<b>Exec Dt:</b> 01/31/2002
<u>VICTOR, TRENT</u>	<b>Exec Dt:</b> 01/31/2002

<b>Assignee:</b> <u>VOLVO TECHNOLOGICAL DEVELOPMENT CORPORATION</u>
S-412 88 GOTEBOORG, SWEDEN

**Correspondent:** KILPATRICK STOCKTON LLP  
 TRACY W. DRUCE, ESQ.  
 11130 SUNRISE VALLEY DRIVE,  
 SUITE 300  
 RESTON, VA 20191

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